IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	ASCHENBRENNER et al.	Examiner:	Pham, Thierry L.
Serial No.:	09/507,022	Group Art Unit:	2624
Filed:	February 18, 2002	Docket No.:	**BLD990044US1** (IBMN.005US01)
Title:	METHOD, DATA STRUCTURE AND APPARATUS FOR PROVIDING OBJECT LEVEL RENDERING CONTROL USING TAGGED SECONDARY RESOURCES		

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence and the papers, as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Board of Patent Appeals and Interferences, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, on March 15, 2005.

By: David W. Lynch

APPEAL BRIEF

Board of Patent Appeals and Interferences
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is an Appeal Brief submitted pursuant to 37 C.F.R. § 41.37 for the above-referenced patent application. Please charge Deposit Account No. 50-0563 (**BLD990044US1**) in the amount of $500.00 for this brief in support of appeal as indicated in 37 C.F.R. § 41.20(b)(2). If necessary, authority is given to charge/credit deposit account 50-0996 (IBMN.024US01) any additional fees/overages in support of this filing.

I. Real Party in Interest

The real party in interest is International Business Machines Corporation, having a place of business at New Orchard Road, Armonk, New York 10504. This application is assigned to International Business Machines Corporation.

II. Related Appeals and Interferences

Appellants are unaware of any related appeals, interferences or judicial proceedings.

III. Status of Claims

Claims 1-47 are rejected. Claims 1-47 are presented for appeal and may be found in the attached Appendix of Appealed Claims in their present form.

IV. Status of Amendments

No amendments to the claims were made subsequent to the final rejection of Appellants' application.

V. Summary of Invention

A method, data structure and apparatus provide object level management using tagged secondary resources is claimed. According to independent claim 1, a data structure (page 26, lines 4-6; 300 in Fig. 3) provides object level management of a document datastream (page 28 lines 1-2; 410 in Fig. 4) in a print system using tagged secondary resources. The data structure (page 26, lines 4-6; 300 in Fig. 3) includes at least one mapping structure (page 26, lines 6-7; 310 in Fig. 3) for identifying rendering control data (page 26, lines 7-8; 312 in Fig. 3) as a secondary resource (page 26, lines 16-18; 322 in Fig. 3) and at least one include object structure (page 26, lines 9-10; 350 in Fig. 3) for referencing the rendering control data (page 26, lines 19-21; 360 in Fig. 3). The method provides rendering control, without modifying the heterogeneous object.

In Independent claim 11, a method for providing object level management using tagged secondary resources is recited. The method includes mapping (page 26, lines 6-7; 310 in Fig. 3) rendering control data (page 26, lines 7-8; 312 in Fig. 3) for at least one object as a secondary resource (page 26, lines 16-18; 322 in Fig. 3), including at least one include structure (page 26, lines 9-10; 350 in Fig. 3) for the at least one object that references the mapped rendering control data (page 26, lines 19-21; 360 in Fig. 3), printing a page containing the at least one object (page 29, lines 20-22; 580 in Fig. 5), the at least one object on the page being rendered according to the mapped rendering control data for the at least one object.

In Independent claim 18, a method for providing object level management for a page using tagged secondary resources is recited. This method includes determining whether rendering control data for an object is mapped (page 29, line 14; 510 in Fig. 5), making the

rendering control data for the object available in the printer (page 29, lines 17-18; 530 in Fig. 5), including the object that references the mapped rendering control data for the object (page 28, line 20; 418 in Fig. 4), determining whether additional rendering control data is to be mapped (page 29, lines 18-19; 550 in Fig. 5), making additional rendering control data for additional objects available in the printer (page 29, line 19; 552 in Fig. 5), including the additional objects that reference the additionally mapped rendering control data for the additional objects when it is determined that additional rendering control data is to be mapped (page 28, line 20; 418 in Fig. 4), rendering objects in page according to mapped rendering control data for the objects (page 29, lines 20-21; 560 in Fig. 5) and printing the page (page 29, lines 20-22; 580 in Fig. 5).

In Independent claim 25, a system for providing object level management for a page is recited. The system includes a print server (page 28, lines 1-2; 412 in Fig. 4) for receiving an application datastream (page 28, lines 1-2; 410 in Fig. 4) defining a document containing objects for printing and creating a printer datastream that is specific to a destination printer engine (page 28, lines 6-8; 428 in Fig. 4) in order to integrate with the printer's specific capabilities and command set and a control unit for maintaining cached objects, the control unit (page 28, lines 6-8; 426 in Fig. 4) further comprising a raster image processor (page 21, lines 18-21 150 in Fig. 1) for rendering object according to commands provided by the print server in the printer datastream, wherein the application datastream maps (page 26, lines 6-7; 310 in Fig. 3) at least one set of rendering control data (page 26, lines 7-8; 312 in Fig. 3) as a secondary resource (page 26, lines 16-18; 322 in Fig. 3) and includes at least one object (page 26, lines 9-10; 350 in Fig. 3) that references the at least one mapped set of rendering control data (page 26, lines 19-21; 360 in Fig. 3) based upon a data structure in the application datastream that tags rendering control data to objects.

In Independent claim 34, an article of manufacture comprising a program storage medium readable by a computer, the medium tangibly embodying one or more programs of instructions executable by the computer to perform a method for providing object level management for a page is recited. The method includes mapping (page 26, lines 6-7; 310 in Fig. 3) rendering control data (page 26, lines 7-8; 312 in Fig. 3) for at least one object as a secondary resource (page 26, lines 16-18; 322 in Fig. 3), including at least one include structure (page 26, lines 9-10; 350 in Fig. 3) for the at least one object that references the

mapped rendering control data (page 26, lines 19-21; 360 in Fig. 3), printing a page containing the at least one object (page 29, lines 20-22; 580 in Fig. 5), the at least one object on the page being rendered according to the mapped rendering control data for the at least one object.

In Independent claim 41, an article of manufacture comprising a program storage medium readable by a computer, the medium tangibly embodying one or more programs of instructions executable by the computer to perform a method for providing object level management for a page is recited. The method includes determining whether rendering control data for an object is mapped (page 29, line 14; 510 in Fig. 5), making the rendering control data for the object available in the printer (page 29, lines 17-18; 530 in Fig. 5), including the object that references the mapped rendering control data for the object (page 28, line 20; 418 in Fig. 4), determining whether additional rendering control data is to be mapped (page 29, lines 18-19; 550 in Fig. 5), making additional rendering control data for additional objects available in the printer (page 29, line 19; 552 in Fig. 5), including the additional objects that reference the additionally mapped rendering control data for the additional objects when it is determined that additional rendering control data is to be mapped (page 28, line 20; 418 in Fig. 4), rendering objects in page according to mapped rendering control data for the objects (page 29, lines 20-21; 560 in Fig. 5) and printing the page (page 29, lines 20-22; 580 in Fig. 5).

VI. Grounds of Rejection

Appellant has attempted to comply with new rule 37 C.F.R. § 41.37(c) by providing the Office Action's grounds of rejection verbatim, followed by an argument section corresponding thereto.

A. Claims 1-6, 8-13, 15-20, 22-24, 34-26, 38-43, and 45-47 are rejected under § 102(e) by Zandee et al. (U.S. Patent No. 5,872,895).

B. Claims 25-33 are rejected under § 102(b) as being anticipated by Smith et al. (U.S. Patent No. 5,704,021).

VII. Argument

A. CLAIMS 1-5 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest A Data Structure That Include A Mapping Structure For Identifying Rendering Control Data As A Secondary Resource And At Least One Include Object Structure For Referencing The Rendering Control Data.

Zandee merely discloses a method for providing color matching between devices. According to Zandee a page is det4ected for printing and a determination is made whether a color matching method according to Zandee is to be used. Objects are captured and provided to a print driver. The print driver determines the object type and identifies whether a profile is associated with the object. Profiles that include a rendering intent may be provided according to Zandee. If a profile is associated with the object, the object is rendered according to the rendering intent provided in the profile. If not, the object is rendered using one of two rendering methods (i.e., business/graphics or photographs) based upon whether the object is a PixMap or not.

However, Zandee does not disclose a data structure that includes a mapping structure for identifying rendering control data as a secondary resource. While Zandee does disclose a color matching method, and Zandee does disclose a profile that may be associated with an object, Zandee fails to teach, disclose or suggest a data structure that includes a mapping structure for identifying rendering control data as a secondary resource.

The Advisory Action asserts that the print driver maps a selected rendering. However, a data structure for instructing on mapping secondary resources to an object is not discussed, i.e., a mapping structure for identifying rendering control data as a secondary resource. Moreover, the Advisory Action indicates that Appellants' "secondary resource" is interpreted to be analogous to rendering intents selected for a particular object. While the rendering intents and the profile are secondary to the object, Zandee does not disclose a data structure that include a mapping structure for identifying rendering control data as a secondary resource AND at least one include object structure for referencing the rendering control data. The data structure provided by the profile merely identifies a particular use of an object it is associated with.

Accordingly, Zandee fails to teach, disclose or suggest data structure that include a mapping structure for identifying rendering control data as a secondary resource AND at least one include object structure for referencing the rendering control data.

B. CLAIMS 5-7 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Source Calibration Parameters.

Zandee discloses that a profile may include tonal reproduction curves, gamut and color space. However, Zandee does not disclose rendering control data, i.e., the rendering intents, that provides source calibration parameters.

Accordingly, Claim 5 is patentable over Zandee. Claims 6-7 are patentable for the same reasons.

C. CLAIMS 8-10 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Text Rendering Parameters, Vector Graphic Rendering Parameters Or Image Rendering Parameters.

Zandee discloses that an image may comprise text, polygons, PixMaps, etc. However, Zandee does not disclose rendering control data, i.e., the rendering intents, that provide text rendering parameters, vector graphic rendering parameters or image rendering parameters. In fact, according to Zandee objects may comprise different image embodiments, but the rendering intent merely provides an identification of the use of the object and a method for performing color matching according to the identified use, e.g., business/graphics verses photographs.

Accordingly, Claims 8-10 is patentable over Zandee.

D. CLAIMS 11 AND 34 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest A Method For Providing Object Level Management Using Tagged Secondary Resources That Includes Mapping Rendering Control Data For At Least One Object As A Secondary Resource And Including At Least One Include Structures For The At Least One Object That References The Mapped Rendering Control Data.

Zandee merely discloses a method for providing color matching between devices. According to the Final Office Action, the profile containing the rendering intent is being interpreted as both the data structure and the secondary resource. However, while the profile may be considered secondary to an object, the profile does not map rendering control data for the object as a secondary object. Rather, the rendering intent merely identifies a particular use for the object, i.e., business/graphics or photographic, and then the print driver prints the object according to a color matching method associated with the identified use.

Accordingly Zandee does not disclose a mapping rendering control data as a secondary resource.

In addition, Zandee does disclose including at least one include structure for the at least one object that references the mapped rendering control object. Zandee does not even mention an include structure. The Advisory Action asserts that Zandee discloses an include object at column 6, lines 50-67. However, this portion of Zandee merely describes the process that a user may perform color matching and that object may comprise text, photographs, graphics, etc. Zandee does not describe any structure that signals the inclusion of an object.

Accordingly, Zandee fails to teach, disclose or suggest a method for providing object level management using tagged secondary resources that includes mapping rendering control data for at least one object as a secondary resource and including at least one include structures for the at least one object that references the mapped rendering control data.

E. CLAIMS 12-14 AND 35-37 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Source Calibration Parameters.

Zandee discloses that a profile may include tonal reproduction curves, gamut and color space. However, Zandee does not disclose rendering control data, i.e., the rendering intents, that provides source calibration parameters.

Accordingly, Claims 12-14 and 35-37 are patentable over Zandee. Claims 6-7 are patentable for the same reasons.

F. CLAIMS 15-17 AND 38-40 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Text Rendering Parameters, Vector Graphic Rendering Parameters Or Image Rendering Parameters.

Zandee discloses that an image may comprise text, polygons, PixMaps, etc. However, Zandee does not disclose rendering control data, i.e., the rendering intents, that provide text rendering parameters, vector graphic rendering parameters or image rendering parameters. In fact, according to Zandee objects may comprise different image embodiments, but the rendering intent merely provides an identification of the use of the object and a method for performing color matching according to the identified use, e.g., business/graphics verses photographs.

Accordingly, Claims 15-17 and 38-40 are patentable over Zandee.

G. CLAIMS 18 AND 41 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest Determining Whether Rendering Control Data For An Object Is Mapped

Zandee merely discloses a method wherein a determination is made as to the type of rendering a user has selected. Zandee discloses that for object based color matching, the automatic rendering intent must be selected. In the object based color matching method, two profiles are provided and an object is rendered according to the type of object. However,

Zandee does describe determining whether rendering control data for an object is mapped. Rather, Zandee merely identifies the type of object and renders the object based upon the type.

Accordingly, Zandee fails to teach, disclose or suggest determining whether rendering control data for an object is mapped.

H. CLAIMS 19-21 AND 42-44 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Source Calibration Parameters.

Zandee discloses that a profile may include tonal reproduction curves, gamut and color space. However, Zandee does not disclose rendering control data, i.e., the rendering intents, that provides source calibration parameters.

Accordingly, Claims 19-21 and 42-44 are patentable over Zandee.

I. CLAIMS 22-24 AND 45-47 ARE PATENTABLE OVER ZANDEE.

1. Zandee Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Text Rendering Parameters, Vector Graphic Rendering Parameters Or Image Rendering Parameters.

Zandee discloses that an image may comprise text, polygons, PixMaps, etc. However, Zandee does not disclose rendering control data, i.e., the rendering intents, that provide text rendering parameters, vector graphic rendering parameters or image rendering parameters. In fact, according to Zandee objects may comprise different image embodiments, but the rendering intent merely provides an identification of the use of the object and a method for performing color matching according to the identified use, e.g., business/graphics verses photographs.

Accordingly, Claims 22-24 and 45-47 are patentable over Zandee.

J. CLAIM 25 IS PATENTABLE OVER SMITH.

1. Smith Fails To Disclose, Teach Or Suggest Creating A Printer Datastream That Is Specific To A Destination Printer Engine.

Smith merely mentions that the invention is used in an inkjet printer. However, Smith fails to suggest creating a datastream that is specific to a destination printer engine. In fact, Smith is silent regarding the print engine. While an inkjet printer is a specific type of printer, various print engines may be implemented for providing the inkjet printing. Yet, Smith does not provide any discussion of the creation of the datastream, but rather focuses on a method for selecting rendering for objects to be printed on an inkjet printer in general.

Accordingly, claim 25 is patentable over Smith.

2. Smith Fails To Disclose, Teach Or Suggest A Control Unit That Includes A Raster Image Processor.

Smith fails to mention a raster image processor in particular or an image processor in general. Rather, Smith contemplates printing using a raster printer. However, the discussion of a raster image processor is completely missing. Moreover, the control unit of Smith merely describes providing print quality selection so that a quality mode may be matched with the type of document being printed, i.e., photograph, text, etc.

Accordingly, claim 25 is patentable over Smith.

3. Smith Fails To Disclose, Teach Or Suggest A Datastream That Maps At Least One Set Of Rendering Control Data As A Secondary Resource.

Smith fails to mention mapping at least one set of rendering control data as a secondary resource. Smith does discuss user selected or default halftoning and color-matching maps. However, Smith does suggest that a preferred rendering option, such as halftoning, and/or color matching, is selected for each one of such different color-object types. Then, according to Smith, the document is printed in accordance with such rendering. Nevertheless, Smith does not discuss mapping rendering control data as a secondary resource. Further, with respect to the term secondary resource, it is unclear what the Office Action considers a secondary resource because it equates a secondary resource with ink in its

discussion of claim 26. However, this is clearly inconsistent with mapping rendering control data.

Accordingly, claim 25 is patentable over Smith.

K. CLAIM 26 IS PATENTABLE OVER SMITH.

1. Smith Fails To Disclose, Teach Or Suggest That The Secondary Resource Is Shipped Resident In The Printer.

The Office Action indicates that ink is shipped with the printer. However, Appellant respectfully submits that rendering control data that is mapped as a secondary resource cannot be equated with ink. Words in claims are to be given their broadest reasonable interpretation consistent with the specification. The Office Action should not be allowed to distorting the clear and plain meaning of the language of the claims.

Accordingly, Claim 26 is patentable over Smith.

L. CLAIM 27 IS PATENTABLE OVER SMITH.

1. Smith Fails To Disclose, Teach Or Suggest That The Secondary Resource Is Downloaded By The Print Server Based Upon The Mapping When The Secondary Resource Is Not Resident.

Smith fails to suggest that the secondary resource is downloaded by the print server based upon the mapping when the secondary resource is not resident. As described above, Smith does not suggest mapping rendering control data as a secondary resource. Moreover, however, Smith fails to mention a print server or downloading.

Accordingly, Claim 27 is patentable over Smith.

M. CLAIMS 28-30 ARE PATENTABLE OVER SMITH.

1. Smith Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Source Calibration Parameters.

Smith does not disclose a datastream that maps at least one set of rendering control data that provides source calibration parameters. Smith merely describes a screen that may

be present to a user for selecting print control options such as print color control, and halftoning. A calibration screen 99 is mentioned. However, the calibrate screen merely allows an operator to recalibrate the monitor in order to assemble and store new color maps (tables) for an "Accurate Screen Match" mode. Smith completely fails to suggest a datastream that maps at least one set of rendering control data that provides source calibration parameters.

Accordingly, Claims 28-30 are patentable over Smith.

N. CLAIMS 31-33 ARE PATENTABLE OVER SMITH.

1. Smith Fails To Disclose, Teach Or Suggest That The Rendering Control Data Comprises Text Rendering Parameters, Vector Graphic Rendering Parameters Or Image Rendering Parameters.

Smith does not disclose a datastream that maps at least one set of rendering control data as a secondary resource. Moreover, Smith does not suggest rendering control data that is mapped as a secondary resources that provides text rendering parameters, vector graphic rendering parameters or image rendering parameters. Rather, Smith merely demonstrates two tables, i.e., Tables 2 and 3, which show the types of color matching (or "mapping" 82-84) and halftoning 21-27, 91, 92 (FIGS. 6 through 9) that are implemented in the driver 32 for the various user-selectable options or settings in this user-interface dialog 80. While the color matching functionality is provided by the print driver 32 in Smith, Smith does not disclose a datastream that maps at least one set of rendering control data as a secondary resource, wherein the rendering control data provides text rendering parameters, vector graphic rendering parameters or image rendering parameters.

Accordingly, Claims 31-33 are patentable over Smith.

VIII. Conclusion

In view of the above, Appellants submit that the rejections are improper, the claimed invention is patentable, and that the rejections and objections of claims 1-47 should be reversed. Appellants respectfully request reversal of the rejections as applied to the appealed claims and allowance of the entire application.

Authority to charge the assignee's deposit account was provided on the first page of this brief.

Respectfully submitted,

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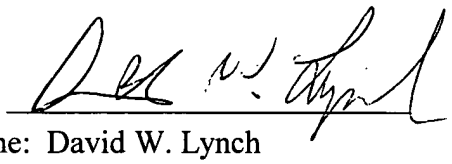
By: 
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APPENDIX OF APPEALED CLAIMS FOR APPLICATION NO. 09/507,022

1. (Previously Presented) A data structure embodied in a tangible medium for providing object level management of a document datastream in a print system using tagged secondary resources, the data structure including at least one mapping structure for identifying rendering control data as a secondary resource and at least one include object structure for referencing the rendering control data.

2. (Original) The data structure of claim 1 wherein a plurality of mapping structures are provided.

3. (Original) The data structure of claim 2 wherein a plurality of include object structures to an object reference the identified rendering control data.

4. (Original) The data structure of claim 1 wherein a plurality of include object structures to an object are provided for referencing identified rendering control data.

5. (Original) The data structure of claim 1 wherein the rendering control data comprises source calibration parameters.

6. (Original) The data structure of claim 5 wherein the source calibration parameters comprise a color profile.

7. (Original) The data structure of claim 5 wherein the source calibration parameters comprise halftoning parameters.

8. (Original) The data structure of claim 1 wherein the rendering control data comprises text rendering parameters.

9. (Original) The data structure of claim 1 wherein the rendering control data comprises vector graphic rendering parameters.

10. (Original) The data structure of claim 1 wherein the rendering control data comprises image rendering parameters.

11. (Original) A method for providing object level management using tagged secondary resources, comprising:

mapping rendering control data for at least one object as a secondary resource;

including at least one include structures for the at least one object that references the mapped rendering control data;

printing a page containing the at least one object, the at least one object on the page being rendered according to the mapped rendering control data for the at least one object.

12. (Original) The method of claim 11 wherein the rendering control data comprises source calibration parameters.

13. (Original) The method of claim 12 wherein the source calibration parameters comprise a color profile.

14. (Original) The method of claim 12 wherein the source calibration parameters comprise halftoning parameters.

15. (Original) The method of claim 11 wherein the rendering control data comprises text rendering parameters.

16. (Original) The method of claim 11 wherein the rendering control data comprises vector graphic rendering parameters.

17. (Original) The method of claim 11 wherein the rendering control data comprises image rendering parameters.

18. (Original) A method for providing object level management for a page using tagged secondary resources, comprising:

determining whether rendering control data for an object is mapped;

making the rendering control data for the object available in the printer;

including the object that references the mapped rendering control data for the object;

determining whether additional rendering control data is to be mapped;

making additional rendering control data for additional objects available in the printer and including the additional objects that reference the additionally mapped rendering control data for the additional objects when it is determined that additional rendering control data is to be mapped;

rendering objects in page according to mapped rendering control data for the objects; and

printing the page.

19. (Original) The method of claim 18 wherein the rendering control data comprises source calibration parameters.

20. (Original) The method of claim 19 wherein the source calibration parameters comprise a color profile.

21. (Original) The method of claim 19 wherein the source calibration parameters comprise halftoning parameters.

22. (Original) The method of claim 18 wherein the rendering control data comprises text rendering parameters.

23. (Original) The method of claim 18 wherein the rendering control data comprises vector graphic rendering parameters.

24. (Original) The method of claim 18 wherein the rendering control data comprises image rendering parameters.

25. (Original) A system for providing object level management for a page, comprising:

a print server for receiving an application datastream defining a document containing objects for printing and creating a printer datastream that is specific to a destination printer engine in order to integrate with the printer's specific capabilities and command set; and

a control unit for maintaining cached objects, the control unit further comprising a raster image processor for rendering object according to commands provided by the print server in the printer datastream;

wherein the application datastream maps at least one set of rendering control data as a secondary resource and includes at least one object that references the at least one mapped set of rendering control data based upon a data structure in the application datastream that tags rendering control data to objects.

26. (Original) The system of claim 25 wherein the secondary resource is shipped resident in the printer.

27. (Original) The system of claim 25 wherein the secondary resource is downloaded by the print server based upon the mapping when the secondary resource is not resident.

28. (Original) The system of claim 25 wherein the rendering control data comprises source calibration parameters.

29. (Original) The system of claim 28 wherein the source calibration parameters comprise a color profile.

30. (Original) The system of claim 28 wherein the source calibration parameters comprise halftoning parameters.

31. (Original) The system of claim 25 wherein the rendering control data comprises text rendering parameters.

32. (Original) The system of claim 25 wherein the rendering control data comprises vector graphic rendering parameters.

33. (Original) The system of claim 25 wherein the rendering control data comprises image rendering parameters.

34. (Original) An article of manufacture comprising a program storage medium readable by a computer, the medium tangibly embodying one or more programs of instructions executable by the computer to perform a method for providing object level management for a page, the method comprising:

mapping rendering control data for at least one object as a secondary resource;

including at least one include structure for the at least one object that references the mapped rendering control data;

printing a page containing the at least one object, the at least one object on the page being rendered according to the mapped rendering control data for the at least one object.

35. (Original) The article of manufacture of claim 34 wherein the rendering control data comprises source calibration parameters.

36. (Original) The article of manufacture of claim 35 wherein the source calibration parameters comprise a color profile.

37. (Original) The article of manufacture of claim 35 wherein the source calibration parameters comprise halftoning parameters.

38. (Original) The article of manufacture of claim 34 wherein the rendering control data comprises text rendering parameters.

39. (Original) The article of manufacture of claim 34 wherein the rendering control data comprises vector graphic rendering parameters.

40. (Original) The article of manufacture of claim 34 wherein the rendering control data comprises image rendering parameters.

41. (Original) An article of manufacture comprising a program storage medium readable by a computer, the medium tangibly embodying one or more programs of instructions executable by the computer to perform a method for providing object level management for a page, the method comprising:

determining whether rendering control data for an object is mapped;

making the rendering control data for the object available in the printer;

including the object that references the mapped rendering control data for the object;

determining whether additional rendering control data is to be mapped;

making additional rendering control data for additional objects available in the printer and including the additional objects that reference the additionally mapped rendering control data for the additional objects when it is determined that additional rendering control data is to be mapped;

rendering objects in page according to mapped rendering control data for the objects; and

printing the page.

42. (Original) The article of manufacture of claim 41 wherein the rendering control data comprises source calibration parameters.

43. (Original) The article of manufacture of claim 42 wherein the source calibration parameters comprise a color profile.

44. (Original) The article of manufacture of claim 42 wherein the source calibration parameters comprise halftoning parameters.

45. (Original) The article of manufacture of claim 41 wherein the rendering control data comprises text rendering parameters.

46. (Original) The article of manufacture of claim 41 wherein the rendering control data comprises vector graphic rendering parameters.

47. (Original) The article of manufacture of claim 41 wherein the rendering control data comprises image rendering parameters.

APPENDIX OF EVIDENCE FOR APPLICATION NO. 09/507,022

Appellants are unaware of any evidence submitted in this application pursuant to 37 C.F.R. §§ 1.130, 1.131, and 1.132.

APPENDIX OF RELATED PROCEEDINGS FOR APPLICATION NO. 09/507,022

As stated in Section II above, Appellants are unaware of any related appeals, interferences or judicial proceedings.